

In re Patent Application of
FLICK
Serial No. 10/649,267
Filed: AUGUST 27, 2003

In the Claims:

This listing of claims replaces all prior versions and listings of claims in the application.

1. (Currently amended) A pre-warn vehicle security device for a vehicle comprising a data communications bus extending throughout the vehicle and carrying data and address information thereover, an audible alert indicator, and an alarm controller interfacing with the data communications bus extending throughout the vehicle and carrying data and address information thereover and causing the audible alert indicator to generate an audible alarm indication responsive to a sensed high security threat level condition, the pre-warn vehicle security device comprising:

a housing;

a multi-stage sensor carried by said housing for sensing the high security threat level condition and communicating the sensed high security threat level condition to the alarm controller via the data communications bus extending throughout the vehicle and carrying data and address information thereover, and for sensing a low security threat level condition lower than the sensed high security threat level condition; and

an audible pre-warn indicator carried by said housing and connected independently of the data communications bus to said multi-stage sensor for generating an audible pre-warn indication responsive to the sensed low security threat level condition, the audible pre-warn indication having a

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lesser volume and a shorter duration than the audible alarm indication.

2. (Canceled).

3. (Canceled).

4. (Original) The pre-warn vehicle security device of Claim 1 further comprising a pre-warn emulator for generating a high security threat level signal on the data communications bus extending throughout the vehicle and carrying data and address information thereover responsive to the sensed high security threat level.

5. (Previously Presented) The pre-warn vehicle security device of Claim 4 wherein the alarm controller generates a confirmation signal on the data communications bus extending throughout the vehicle and carrying data and address information thereover upon switching between armed and disarmed operational modes, and wherein said pre-warn emulator causes said audible pre-warn indicator to provide an audible confirmation indication responsive to the confirmation signal.

6. (Previously Presented) The pre-warn vehicle security device of Claim 4 wherein said pre-warn emulator switches between armed and disarmed operational modes based upon a mode change signal on the data communications bus extending throughout the vehicle and carrying data and address information thereover, and wherein said pre-warn emulator

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causes said audible pre-warn indicator to provide an audible confirmation indication upon switching between armed and disarmed operational modes.

7. (Original) The pre-warn vehicle security device of Claim 4 further comprising a signal enabler for enabling said pre-warn emulator to operate using a desired set of signals for communicating with the alarm controller via the data communications bus extending throughout the vehicle and carrying data and address information thereover from a plurality of sets of signals for different alarm controllers.

8. (Original) The pre-warn vehicle security device of Claim 1 wherein said multi-stage sensor comprises a multi-stage shock sensor.

9. (Previously Presented) The pre-warn vehicle security device of Claim 1 wherein said audible pre-warn indicator comprises a siren.

10. (Canceled).

11. (Canceled).

12. (Canceled).

13. (Canceled).

14. (Canceled).

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15. (Canceled).

16. (Canceled).

17. (Currently amended) A pre-warn vehicle security device for a vehicle comprising a data communications bus extending throughout the vehicle and carrying data and address information thereover, an audible alert indicator, a vehicle light, and an alarm controller interfacing with the data communications bus extending throughout the vehicle and carrying data and address information thereover and causing the audible alert indicator to generate an audible alarm indication responsive to a sensed high security threat level condition, the alarm controller also for switching between armed and disarmed operational modes and causing the vehicle light to generate a confirmation indication based thereon, the pre-warn vehicle security device comprising:

 a housing;

 a multi-stage sensor carried by said housing for sensing the high security threat level condition and communicating the sensed high security threat level condition to the alarm controller via the data communications bus extending throughout the vehicle and carrying data and address information thereover, and for sensing a low security threat level condition lower than the sensed high security threat level condition; and

 an audible pre-warn indicator carried by said housing and connected independently of the data communications

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bus to said multi-stage sensor for generating an audible pre-warn indication responsive to the sensed low security threat level condition, and for generating an audible confirmation indication responsive to the alarm controller switching between armed and disarmed operational modes, the audible pre-warn indication having a shorter duration and a lesser volume than the audible alarm indication.

18. (Canceled).

19. (Canceled).

20. (Previously Presented) The pre-warn vehicle security device of Claim 17 further comprising a pre-warn emulator for generating a high security threat level signal on the data communications bus extending throughout the vehicle and carrying data and address information thereover responsive to the sensed high security threat level.

21. (Previously Presented) The pre-warn vehicle security device of Claim 20 wherein the alarm controller generates a confirmation signal on the data communications bus extending throughout the vehicle and carrying data and address information thereover upon switching between armed and disarmed operational modes, and wherein said pre-warn emulator causes said audible pre-warn indicator to provide the confirmation indication responsive to the confirmation signal.

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22. (Previously Presented) The pre-warn vehicle security device of Claim 20 wherein said pre-warn emulator switches between armed and disarmed operational modes based upon a mode change signal on the data communications bus extending throughout the vehicle and carrying data and address information thereover, and wherein said pre-warn emulator causes said audible pre-warn indicator to provide a confirmation upon switching between armed and disarmed operational modes.

23. (Previously Presented) The pre-warn vehicle security device of Claim 20 further comprising a signal enabler for enabling said pre-warn emulator to operate using a desired set of signals for communicating with the alarm controller via the data communications bus extending throughout the vehicle and carrying data and address information thereover from a plurality of sets of signals for different alarm controllers.

24. (Original) The pre-warn vehicle security device of Claim 17 wherein said multi-stage sensor comprises a multi-stage shock sensor.

25. (Original) The pre-warn vehicle security device of Claim 17 wherein said audible pre-warn indicator comprises a siren.

26. (Currently amended) A pre-warn vehicle security device for a vehicle comprising a data communications bus

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extending throughout the vehicle and carrying data and address information thereover and at least one vehicle device interfacing with the data communications bus extending throughout the vehicle and carrying data and address information thereover and generating a mode change signal on the data communications bus extending throughout the vehicle and carrying data and address information thereover, the pre-warn vehicle security device comprising:

a housing;

a multi-stage sensor carried by said housing for sensing the a high security threat level condition, and for sensing a low security threat level condition lower than the sensed high security threat level condition;

an alarm circuit connected independently of the data communications bus to said multi-stage sensor and interfacing with the data communications bus extending throughout the vehicle and carrying data and address information thereover for switching between armed and disarmed operational modes responsive to the mode change signal on the data communications bus; and

an audible indicator connected to said alarm circuit;

said alarm circuit when in the armed operational mode causing said audible indicator to generate an audible pre-warn indication responsive to the sensed low security threat level condition, and to generate an audible alarm indication responsive to the sensed high security threat level condition, the audible pre-warn indication having a shorter duration and a lesser volume than the alarm indication.

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27. (Previously Presented) The pre-warn vehicle security device of Claim 26 wherein said alarm circuit further causes said audible indicator to generate an audible confirmation indication upon switching between armed and disarmed operational modes.

28. (Canceled).

29. (Canceled).

30. (Original) The pre-warn vehicle security device of Claim 26 wherein said multi-stage sensor comprises a multi-stage shock sensor.

31. (Previously Presented) The pre-warn vehicle security device of Claim 26 wherein said audible indicator comprises a siren.

32. (Currently amended) A method for upgrading a vehicle security system in a vehicle comprising a data communications bus extending throughout the vehicle and carrying data and address information thereover, the vehicle security system comprising an audible alert indicator and an alarm controller for interfacing with the data communications bus extending throughout the vehicle and carrying data and address information thereover and causing the audible alert indicator to generate an audible alarm indication responsive

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to a sensed high security threat level condition, the method comprising:

installing a pre-warn vehicle security device in the vehicle comprising

a housing,

a multi-stage sensor carried by the housing for sensing the high security threat level condition and communicating the sensed high security threat level condition to the alarm controller via the data communications bus extending throughout the vehicle and carrying data and address information thereover, and for sensing a low security threat level condition lower than the sensed high security threat level condition, and

an audible pre-warn indicator carried by the housing and connected independently of the data communications bus to the multi-stage sensor for generating an audible pre-warn indication responsive to the sensed low security threat level condition, the audible pre-warn indication having a shorter duration and a lesser volume than the audible alarm indication.

33. (Canceled).

34. (Canceled).

35. (Previously Presented) The method of Claim 32 wherein the pre-warn vehicle security device further comprises

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a pre-warn emulator for generating a high security threat level signal on the data communications bus extending throughout the vehicle and carrying data and address information thereover responsive to the sensed high security threat level.

36. (Previously Presented) The method of Claim 35 wherein the alarm controller generates a confirmation signal on the data communications bus extending throughout the vehicle and carrying data and address information thereover upon switching between armed and disarmed operational modes, and wherein the pre-warn emulator causes the audible pre-warn indicator to provide an audible confirmation indication responsive to the confirmation signal.

37. (Previously Presented) The method of Claim 35 wherein the pre-warn emulator switches between armed and disarmed operational modes based upon a mode change signal on the data communications bus extending throughout the vehicle and carrying data and address information thereover, and wherein the pre-warn emulator causes the audible pre-warn indicator to provide an audible confirmation indication upon switching between armed and disarmed operational modes.

38. (Previously Presented) The method of Claim 35 wherein the pre-warn vehicle security device further comprises a signal enabler for enabling the pre-warn emulator to operate using a desired set of signals for communicating with the alarm controller via the data communications bus extending

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throughout the vehicle and carrying data and address information thereover from a plurality of sets of signals for different alarm controllers.

39. (Original) The method of Claim 32 wherein the pre-warn vehicle security sensor comprises at least one of a motion sensor and a shock sensor.

40. (Previously Presented) The method of Claim 32 wherein the audible pre-warn indicator comprises a siren.

41. (Canceled).